

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1. (currently amended) A microchannel plate for receiving photoelectrons comprising:

a plate-like substrate web formed from a plurality of microtubules of a single type of acid soluble cladding glass and defining a pair of opposite faces;

the substrate web including a plurality of microchannel passages extending between the opposite faces and having openings in both of the opposite faces;

the microchannel openings having a funnel-like opening formed in the substrate web at least one of the opposite faces; and

the microchannel plate is formed from a microchannel plate preform including a core glass different from the cladding glass ~~and the cladding glass~~; the microchannel plate ~~perform~~ preform is first etched for a desired period of time with a first acid selected to create the funnel-like openings at the intersection of the core and cladding glass at least one of the opposite faces; the microchannel preform having been first etched is then subjected to a second etching process with a second selected acid to remove the remaining core glass forming the plate-like substrate web.

2. (canceled)

3. (currently amended) A method for manufacturing a microchannel plate including the steps of:

etching a microchannel plate preform having two opposite faces including a core glass and a single type of acid soluble cladding glass different from the core glass with a first acid selected for a desired period of time to create funnel-like openings at the intersection of the core and cladding glass at one or both of the opposite faces;

subjecting the microchannel preform having been first etched to a second etching process with a second selected acid to remove the remaining core glass forming the plate-like substrate web.

4. (previously presented) The invention of claim 1 wherein the first acid is hydrofluoric acid.

5. (withdrawn) The invention of claim 1 wherein the second acid is sodium hydroxide.

6. (previously presented) The invention of claim 1 wherein the second acid is hydrochloric acid.

7. (previously presented) The method of claim 3 wherein the first acid is hydrofluoric acid.

8. (withdrawn) The method of claim 3 wherein the second acid is sodium hydroxide.

9. (previously presented) The method of claim 3 wherein the second acid is hydrochloric acid.

10. (new) A microchannel plate preform comprising:
- a plate-like substrate formed from a plurality of adjacent microtubules of a single type of acid soluble cladding glass and defining a pair of opposite faces; and
 - the microtubules being formed having an interior acid soluble core glass different from the cladding glass.



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Notice of Non-Compliant Amendment (37 CFR 1.121)

The amendment document filed on 11-15-04 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121. In order for the amendment document to be compliant, correction of the following item(s) is required. Only the corrected section of the non-compliant amendment document must be resubmitted (in its entirety), e.g., the entire "Amendments to the claims" section of applicant's amendment document must be re-submitted. 37 CFR 1.121(h).

THE FOLLOWING CHECKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:

- ☐ 1. Amendments to the specification:
- ☐ A. Amended paragraph(s) do not include markings.
 - ☐ B. New paragraph(s) should not be underlined.
 - ☐ C. Other _____
- ☐ 2. Abstract:
- ☐ A. Not presented on a separate sheet. 37 CFR 1.72.
 - ☐ B. Other _____
- ☐ 3. Amendments to the drawings: _____
- ☒ 4. Amendments to the claims:
- ☐ A. A complete listing of all of the claims is not present.
 - ☒ B. The listing of claims does not include the text of all pending claims (including withdrawn claims)
 - ☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following 7 status identifiers: (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New) and (Not entered).
 - ☒ D. The claims of this amendment paper have not been presented in ascending numerical order.
 - ☒ E. Other: Please see attachment

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP Sec. 714 and the USPTO website at <http://www.uspto.gov/web/offices/pac/dapp/opla/procnotice/officeflyer.pdf>.

If the non-compliant amendment is a **PRELIMINARY AMENDMENT**, applicant is given **ONE MONTH** from the mail date of this letter to supply the corrected section which complies with 37 CFR 1.121. Failure to comply with 37 CFR 1.121 will result in non-entry of the preliminary amendment and examination on the merits will commence without consideration of the proposed changes in the preliminary amendment(s). This notice is not an action under 35 U.S.C. 132, and this **ONE MONTH** time limit is not extendable.

If the non-compliant amendment is a reply to a **NON-FINAL OFFICE ACTION** (including a submission for an RCE), and since the amendment appears to be a *bona fide* attempt to be a reply (37 CFR 1.135(c)), applicant is given a **TIME PERIOD** of **ONE MONTH** from the mailing of this notice within which to re-submit the corrected section which complies with 37 CFR 1.121 in order to avoid abandonment. **EXTENSIONS OF THIS TIME PERIOD ARE AVAILABLE UNDER 37 CFR 1.136(a).**

If the amendment is a reply to a **FINAL REJECTION**, this form may be an attachment to an Advisory Action. The period for response to a final rejection continues to run from the date set in the final rejection, and is not affected by the non-compliant status of the amendment.

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